Sequence Listing

<110> Botstein, David Desnoyers, Luc Ferrara, Napoleone Fong, Sherman Gao, Wei-Qiang Goddard, Audrey Gurney, Austin L. Pan, James Roy, Margaret Ann Stewart, Timothy A. Tumas, Daniel Watanabe, Colin K. Wood, William I.
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Ala Gly Ala Glu Leu Leu Thr Glu Val Asn Arg Leu Gly Ser Gly
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Glu Thr Arg Asp Leu Val His Ala Pro Leu Pro Leu Thr Trp Lys
755 760 765

Arg Ser Ser Leu Cys Gly Glu Glu Gln Gly Ser Pro Glu Glu Leu 770 775 780

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Lys Ile Tyr Asn Pro Ser Glu Gln Cys Cys Tyr Asp Asp Ala Ile 50 55 60

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<212> PRT

<213> Homo sapiens

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His Val Trp Lys Val Ser Asp Leu Pro Arg Gln Trp Thr Pro Lys
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Asn Thr Ser Cys Asp Ser Gly Leu Gly Cys Gln Asp Thr Leu Met
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Leu Ile Glu Ser Gly Pro Gln Val Ser Leu Val Leu Ser Lys Gly
65 70 75

Cys Thr Glu Ala Lys Asp Gln Glu Pro Arg Val Thr Glu His Arg 80 85 90

Met Gly Pro Gly Leu Ser Leu Ile Ser Tyr Thr Phe Val Cys Arg 95 100 105

Gln Glu Asp Phe Cys Asn Asn Leu Val Asn Ser Leu Pro Leu Trp
110 115 120

Ala Pro Gln Pro Pro Ala Asp Pro Gly Ser Leu Arg Cys Pro Val 125 130 135

Cys Leu Ser Met Glu Gly Cys Leu Glu Gly Thr Thr Glu Glu Ile 140 145 150

Cys Pro Lys Gly Thr Thr His Cys Tyr Asp Gly Leu Leu Arg Leu 155 160 165

Arg Gly Gly Ile Phe Ser Asn Leu Arg Val Gln Gly Cys Met
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Pro Gln Pro Gly Cys Asn Leu Leu Asn Gly Thr Gln Glu Ile Gly 185 190 195

Pro Val Gly Met Thr Glu Asn Cys Asn Arg Lys Asp Phe Leu Thr 200 205 210

Cys His Arg Gly Thr Thr Ile Met Thr His Gly Asn Leu Ala Gln 215 220 225

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Pro	Leu	Gly	Thr	Cys 335	Ser	Ser	Gly	Ser	Pro 340	Arg	Met	Thr	Сув	Pro 345
Arg	Gly	Ala	Thr	His 350	Cys	Tyr	Asp	Gly	Tyr 355	Ile	His	Leu	Ser	Gly 360
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Pro	Ser	Ser	Phe	Leu 380	Leu	Asn	His	Thr	Arg 385	Gln	Ile	Gly	Ile	Phe 390
Ser	Ala	Arg	Glu	Lys 395	Arg	Asp	Val	Gln	Pro 400	Pro	Ala	Ser	Gln	His
Glu	Gly	Gly	Gly	Ala 410	Glu	Gly	Leu	Glu	Ser 415	Leu	Thr	Trp	Gly	Val 420
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<210> 17

<211> 2387

<212> DNA

<213> Homo sapiens

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<212> PRT

<213> Homo sapiens

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Tyr Phe Gly Thr Lys Thr Arg Tyr Glu Asp Val Asn Pro Val Leu 50 55 60

Leu Ser Gly Pro Glu Ala Pro Trp Arg Asp Pro Glu Leu Leu Glu
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Gly Thr Cys Thr Pro Val Gln Leu Val Ala Leu Ile Arg His Gly 80 85 90

Thr Arg Tyr Pro Thr Val Lys Gln Ile Arg Lys Leu Arg Gln Leu
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His Gly Leu Leu Gln Ala Arg Gly Ser Arg Asp Gly Gly Ala Ser

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Arg	Gln	Asp	Met	Arg 155	Gln	Leu	Ala	Leu	Arg 160	Leu	Ala	Ser	Leu	Phe 165
Pro	Ala	Leu	Phe	Ser 170	Arg	Glu	Asn	Tyr	Gly 175	Arg	Leu	Arg	Leu	Ile 180
Thr	Ser	Ser	Lys	His 185	Arg	Cys	Met	Asp	Ser 190	Ser	Ala	Ala	Phe	Leu 195
Gln	Gly	Leu	Trp	Gln 200	His	Tyr	His	Pro	Gly 205	Leu	Pro	Pro	Pro	Asp 210
Val	Ala	Asp	Met	Glu 215	Phe	Gly	Pro	Pro	Thr 220	Val	Asn	Asp	Lys	Leu 225
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Pro	Glu	Met	Gln	Asn 260	Ile	Leu	Lys	Lys	Val 265	Ala	Ala	Thr	Leu	Gln 270
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Ile	Asn	Ser	Arg	Ser 335	Ser	Cys	Thr	Leu	Phe 340	Gln	Asp	Ile	Phe	Gln 345
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Pro	Leu	Leu	Ser	Leu 380	Met	Gly	Tyr	Phe	Lys 385	Asp	Lys	Glu	Pro	Leu 390
Thr	Ala	Tyr	Asn	Tyr 395	Lys	Lys	Gln	Met	His 400	Arg	Lys	Phe	Arg	Ser 405

Gly Leu Ile Val Pro Tyr Ala Ser Asn Leu Ile Phe Val Leu Tyr 410

His Cys Glu Asn Ala Lys Thr Pro Lys Glu Gln Phe Arg Val Gln 435

Met Leu Leu Asn Glu Lys Val Leu Pro Leu Ala Tyr Ser Gln Glu 440

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Asn Ser Thr Ser Asp Glu Leu

470

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<213> Homo sapiens

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Ile Trp Phe Pro Glu Glu Lys Pro Leu Pro Thr Ala Phe Leu Val 35 40 45

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Gln Asp Leu Glu Pro Gln Gln Leu Leu Phe Val Gln Ser Phe 80 85 90

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Gln	Leu	Arg	Val	Leu 185	Gly	Pro	Glu	Asp	Asp 190	Leu	Ala	Gly	Met	Phe 195
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Gln Glu His Ala Ala Val Leu Leu His Arg Ala Phe Leu Val Gly 995 1000 1005

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Ala	Gly	Lys	Ile	Gln 380	Lys	Leu	Lys	Asp	Lys 385	Asp	Phe	Gly	Lys	Gln 390
Ala	Leu	Arg	Lys	Glu 395	His	Val	Asn	Pro	Pro 400	Ala	Glu	Val	Ser	Thr 405
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Phe	Arg	Ser	Gly	Asn 455	Ile	Glu	His	Pro	Glu 460	Asp	Lys	Leu	Phe	Asn 465
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